A data switching device has inputs for ~~Granted~~ Guaranteed Throughput (GT) and Best Effort (BE) data, outputs, a data switch interconnecting the inputs and outputs, (GT) control means for controlling the (GT) data scheduling and (BE) control means for controlling the (BE) data scheduling. The (GT) and (BE) control means are arranged for a combined control such that the (BE) data scheduling is based on a contention free (GT) scheduling.